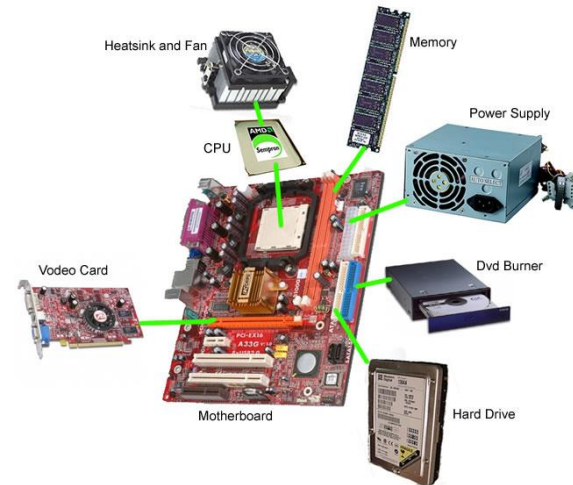


Introduction to Computers and Programming

Computer Parts



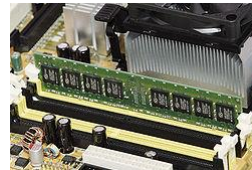
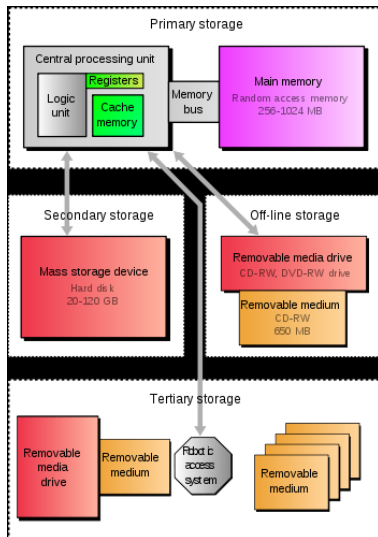
http://ngdhstech.com/images/computer_parts.jpg

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Memory



http://en.wikipedia.org/wiki/Main_memory

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Operating System/Process Conventions

- Drives, Partitions, Folder structure
- Command prompt, cygwin.com
- Environment Variables
- *nix /etc vs. Windows Registry hive
- PATH
- Process Explorer, taskkill, tasklist

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Programming Concepts

- Executable vs. non-executable files
- Binary vs. text files
- Compiled vs. Interpreted languages
- Levels of Code
 - Machine code
 - Assembly language
 - Bytecode
 - Source code
 - Pseudocode

Bits, Bytes, Binary, Hexadecimal

- bit=0/1
- byte=character=8bits
- a=17 (decimal)
- a=010001 (binary)
- a=0x11 (hexadecimal)
- B=0x0A : 10
- B=0x0F : 15
- B= 0xF1 : 241